

Title (en)
CONTENTION RESOLUTION FOR CATV WITH REDUCED WAITING TIME VARIANCE

Title (de)
KONKURRENZAUFÖSUNG FÜR CATV MIT VERMINDERTEN WARTEZEITVARIANZ

Title (fr)
PROCEDE ET SYSTEME DE TRANSMISSION D'UNE PLURALITE DE MESSAGES

Publication
EP 1438837 A2 20040721 (EN)

Application
EP 02767787 A 20020912

Priority
• EP 02767787 A 20020912
• EP 01203906 A 20011012
• IB 0203796 W 20020912

Abstract (en)
[origin: WO03034711A2] The invention relates to a method and a system that are used during tree-search or stack contention-resolution protocols that resolve message transmission collisions between for example Cable Television stations (CaTV). The CaTV broadband data network provides two-way communication between subscriber computer systems (102, 104, 106, 110, 112, 114) and the CaTV head-end (100). In order to resolve collisions between messages sent by CaTVs a method of transmitting a plurality of messages, the plurality of messages being transmitted over a communication channel is provided. This method comprises: requesting to submit a first request for transmitting a first message of the plurality of messages and to submit a second request for transmitting a second message of the plurality of messages until there is no first collision detected between the submitted first request and the submitted second request upon receipt of the submitted first and second request. Before there is no first collision detected between the submitted first request and the submitted second request, it is requested to submit a third request for transmitting a third message of the plurality of messages and to submit a fourth request for transmitting a fourth message of the plurality of messages. However, requesting to re-submit the third request for transmitting the third message and to re-submit the fourth request for transmitting the fourth message if a second collision is detected between the submitted third request and the submitted second request upon receipt of the submitted third and second request is delayed until there is no first collision detected between the submitted first request and the submitted second request.

IPC 1-7
H04N 5/00

IPC 8 full level
H04N 7/10 (2006.01); **H04L 12/28** (2006.01); **H04L 12/825** (2013.01); **H04N 5/00** (2011.01); **H04N 7/173** (2011.01)

CPC (source: EP KR US)
H04L 47/25 (2013.01 - EP US); **H04N 7/10** (2013.01 - KR); **H04N 7/17309** (2013.01 - EP US); **H04N 21/2221** (2013.01 - EP US); **H04N 21/2385** (2013.01 - EP US); **H04N 21/2393** (2013.01 - EP US); **H04N 21/26216** (2013.01 - EP US)

Citation (search report)
See references of WO 03034711A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03034711 A2 20030424; WO 03034711 A3 20031009; AU 2002330703 A1 20030428; CN 1568602 A 20050119; EP 1438837 A2 20040721; JP 2005506765 A 20050303; KR 20040045811 A 20040602; US 2003091060 A1 20030515; US 7251251 B2 20070731

DOCDB simple family (application)
IB 0203796 W 20020912; AU 2002330703 A 20020912; CN 02820190 A 20020912; EP 02767787 A 20020912; JP 2003537301 A 20020912; KR 20047005364 A 20020912; US 26630202 A 20021008